



Australian Government

Department of Defence

Science and Technology

Innovation in Defence: Why Industry is Vital

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Australian Business Defence Industry
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DST
GROUP

Science and Technology for Safeguarding Australia

Defence White Paper

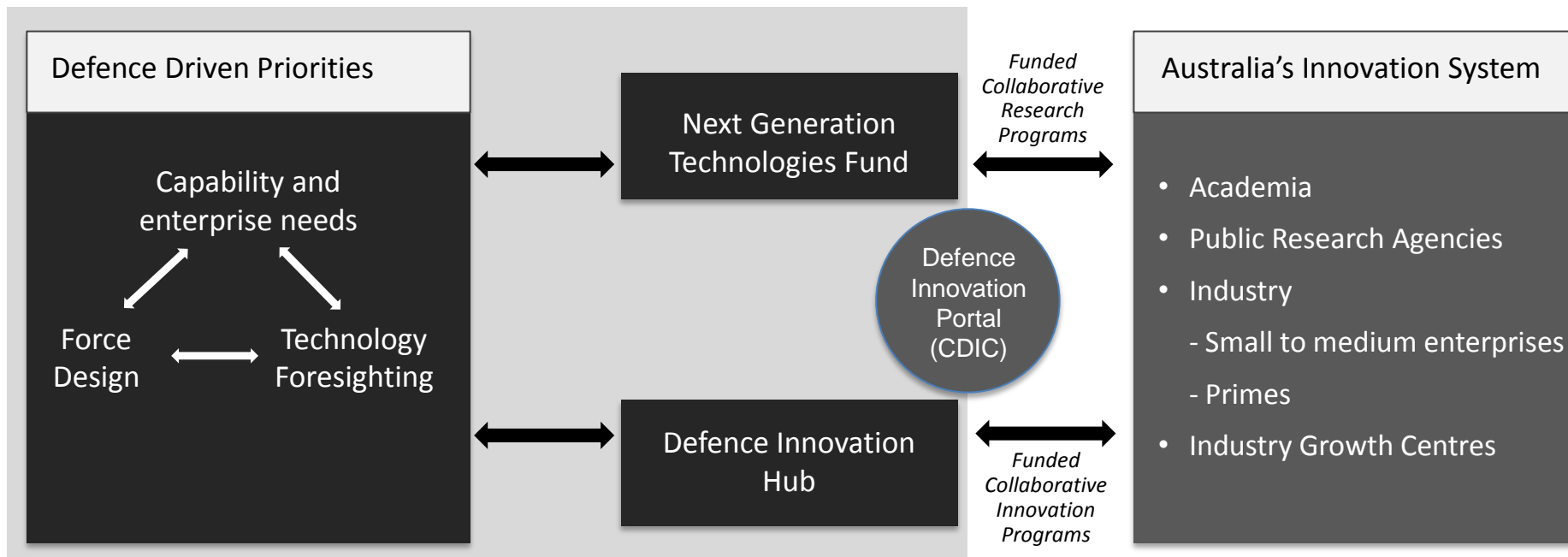
An overall strategy statement with companion documents

- Strategy
- Defence Capability Plan - now Integrated Investment Program
- Defence Industry Policy Statement (DIPS)



Principal Elements of Defence Innovation

Australian Defence Organisation



Defence Projects Are Complex : Need Innovation and Collaboration



Joint Strike Fighter F-35A

Multiple stakeholders/governments
Complex innovative technology
Complex system integration



Wedgetail Aircraft

Complex innovative technology



SATCOM

Multiple stakeholders &
governments



Air Warfare Destroyer

Complex system
integration



Future Submarine

Complex government
to government
relationships

Success Factors for Collaboration: Industry Agrees

- Strong relationships – partnership of equals
- Long-term strategic approach with ambition
- Genuine partnership with co-investment, not a client-provider arrangement
- Specific roles and responsibilities
- Coordinated decision-making
- Certainty over the long term

Mr Raydon
Gates, CEO
Lockheed
Martin



Mr Michael
Ward, CEO
Raytheon
Australia

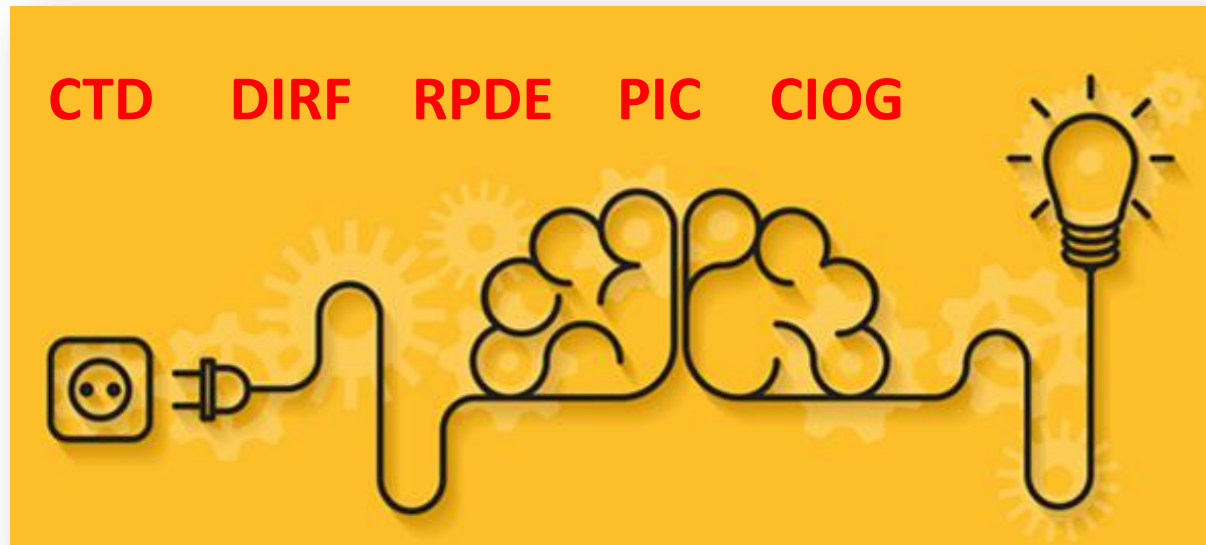


\$1.6 b Innovation Initiatives in the White Paper

INNOVATION PROGRAM	LEAD	FUNDING to 2025-26	AIMED AT
Next Generation Technologies Fund	Defence Science and Technology	\$730 m	Specific technology programs , including: <ul style="list-style-type: none"> • Integrated ISR • Space capabilities • Enhanced Human Performance • Medical Countermeasure Products • Multidisciplinary Material Sciences • Quantum Technologies • Trusted Autonomous Systems • Advanced Sensors, Hypersonics and Directed Energy
Defence Innovation Hub	Strategic Policy and Intelligence	\$640 m	Technology maturation in industry, industry development. Interlocks Capability Technology Demonstrator Program, Defence Innovation Realisation Fund, Rapid Prototyping, Development and Evaluation Program, Priority Industry Capability Development Fund, Chief Information Officer Innovation Program and Defence Materials Technology Centre
Centre for Defence Industry Capability (CDIC)	Private Sector Defence Strategic Policy & Intelligence AusIndustry	\$230 m	Enhancing business engagement: industry development, enhancing innovation and business competitiveness and exports

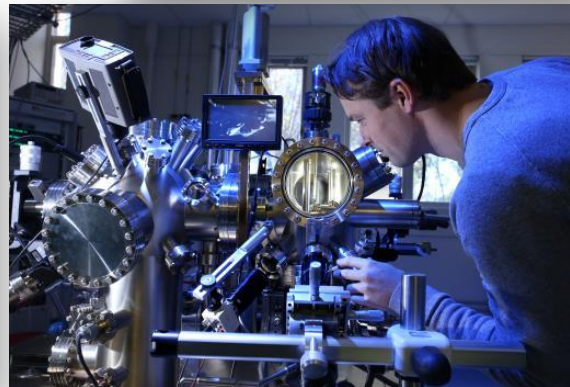
Defence Innovation Hub: Implications

- Single Defence innovation system
- Overall funding 'freed up' to allow more activity
- Managed by the Strategic Policy & Intelligence Group
- Funding Level – approx. \$60 m per year
- DST continues to support all innovation programs



DST Leads Next Generation Technologies Fund

- Integrated ISR
- Space capabilities
- Enhanced Human Performance
- Medical Countermeasure Products
- Multidisciplinary Material Sciences
- Quantum Technologies
- Trusted Autonomous Systems
- Advanced Sensors, Hypersonics and Directed Energy

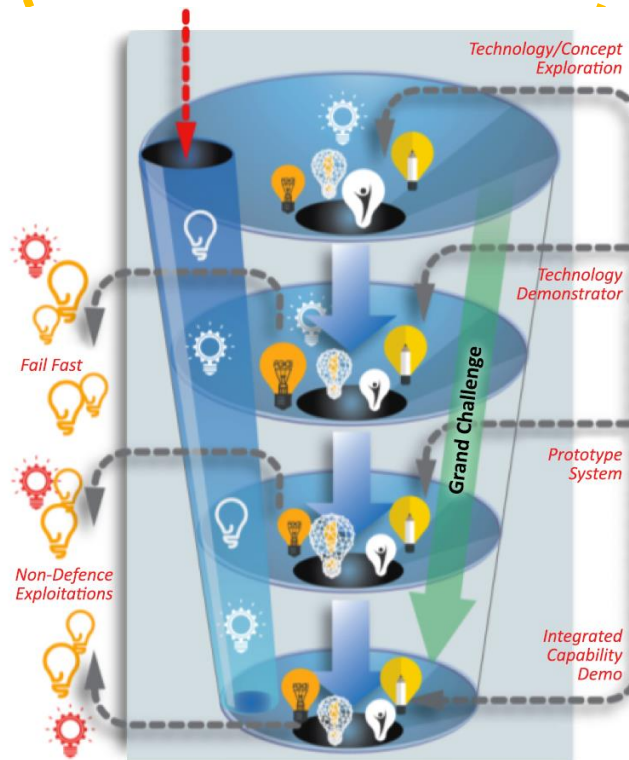


Innovation Programs Under Development

Next Generation Technologies Fund

- Defence Cooperative Research Centre
- Strategic Research Initiative
- Multidisciplinary University Research Initiative
- Small Business Exploratory Tasks
- Grand Challenges

Defence
Cooperative
Research Centres



The HUB

- Technology/Concept Exploration
- Technology Demonstration (CTD)
- Prototype System (RPDE)
- Integrated Capability Demonstration
- Defence-Industry Collaboration

14 Strategic Alliances: 37 Collaborative R&D Projects Underway

AIRBUS
GROUP

ASC

BAE SYSTEMS

BOEING

IBM

LOCKHEED MARTIN

NORTHROP GRUMMAN

QinetiQ

Raytheon



SAAB

THALES



Australian Government

Bureau of Meteorology



Australian Government

Ansto



Partnership Agreements with Universities

- Agreements with 30 universities under new model
- 180 agreements valued at \$20 million
- Agreement processing time reduced from 86 days to 38 days



Australian
National
University



THE UNIVERSITY
of ADELAIDE



THE UNIVERSITY OF
SYDNEY



THE UNIVERSITY
OF QUEENSLAND
AUSTRALIA



THE UNIVERSITY OF
MELBOURNE



DEAKIN
UNIVERSITY AUSTRALIA
Worldly



THE UNIVERSITY OF
WESTERN
AUSTRALIA



UNIVERSITY of
TASMANIA

Engagement with Small and Medium Enterprises

- New SME strategy in development



Thank You and Questions



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